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	Application No.	Applicant(s)	- 1 11 -
Notice of Allowability	10/792,053	QUACH ET AL.	
	Examiner	Art Unit	
	James J. Leybourne	2881	
The MAILING DATE of this communication apperature All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject t	plication. If not include n will be mailed in due	ed course. THIS
1. This communication is responsive to			
2. X The allowed claim(s) is/are <u>1-12</u> .			
3. \boxtimes The drawings filed on <u>06 December 2004</u> are accepted by	the Examiner.		
 4. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. 6. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL. 7. DEPOSIT OF amid/or INFORMATION about the deposit of BIOLOGICAL MATERIAL.			
 Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date 03/04/02 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 	5. Notice of Informal 8. Interview Summary Paper No./Mail Da 7. Examiner's Amend 8. Examiner's Statem 9. Other	/ (PTO-413), ate ment/Comment	·

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DETAILED ACTION

Allowable Subject Matter

1. Claims 1-12 are allowed. The following is an examiner's statement of reasons for allowance:

Regarding independent claim 1, the prior art fails to disclose or make obvious an electron beam treatment apparatus that comprising an array of lamps that output radiation, a lamp heat shield, <u>disposed above the array</u>, having a radiation absorption portion disposed above the lamps; and a radiation reflection portion adapted to reflect radiation from at least a portion of the array towards the substrate when disposed at the treatment position.

Although it is known in the art to provide heating means including heating elements and lamps to provide uniform temperature of substrates that are being treated by an electron beam, the use of lamps below the substrate and a heat reflector/absorber disposed above the array to improve uniformity of heating has not been disclosed.

Claims 2-11 are allowed by virtue of their dependency on claim 1.

With respect to the independent claim 12, the prior art fails to disclose or make obvious a lamp heat shield as disclosed in claim 1.

2. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Relevant Prior Art

3. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

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The following patents are cited to show further show the state of the art with respect to providing heat uniformity with respect to electron beam treatment apparatus:

US-6, 831,284 B2 to Demos et al.

US 2004/026q23 A1 to Cui et al.

US 6,132.814 to Livesay et al.

US 2003/0038251 A1 to Livesay et al.

US 6,607,991 B1 to Livesay et al.

WO 9636070 to Livesay

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James J. Leybourne whose telephone number is (571) 272-2478. The examiner can normally be reached on M-F 9:00-6:30.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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August 25, 2005

JJL

NIKITA WELLS
PRIMARY EXAMINER

08/29/05